

Title (en)  
WIND PARK WITH REAL TIME WIND SPEED MEASUREMENTS

Title (de)  
WINDPARK MIT ECHTZEIT-WINDGESCHWINDIGKEITSMESSUNGEN

Title (fr)  
PARC D'ÉOLIENNES À MESURES DE VITESSE DE VENT EN TEMPS RÉEL

Publication  
**EP 2807371 A1 20141203 (EN)**

Application  
**EP 12701250 A 20120125**

Priority  
EP 2012051117 W 20120125

Abstract (en)  
[origin: WO2013110327A1] A system (100) for producing electrical power based on wind energy is disclosed, which system (100) is capable of predicting its power output. The system (100) comprises a set of wind turbine units (105), a first plurality of sensors (120) each of which is adapted to sense at least one wind characteristic at some of the wind turbine units (105), and a second plurality of sensors (130) remotely located with respect to the wind turbine units (105) and each of which sensors (130) is adapted to sense at least one wind characteristic. At least one wind characteristic is estimated at the wind turbines (105) not having one of the first plurality of sensors (120) based on sensing by the first plurality of sensors (120) and an estimate of changes in wind characteristic at wind turbine units (105) caused by presence of other wind turbine units (105). The magnitude of electrical power production by the set of wind turbine units (105) at least one predefined point in time in the future is predicted based on the estimated wind characteristics and sensed wind characteristics.

IPC 8 full level  
**F03D 7/04** (2006.01); **F03D 80/00** (2016.01); **G06N 20/00** (2019.01)

CPC (source: EP US)  
**F03D 7/048** (2013.01 - EP US); **F03D 17/00** (2016.05 - EP US); **G01W 1/10** (2013.01 - EP US); **G06N 5/04** (2013.01 - US); **G06N 20/00** (2019.01 - EP US); **H02P 9/008** (2013.01 - US); **F05B 2260/821** (2013.01 - EP US); **F05B 2270/204** (2020.08 - EP); **F05B 2270/32** (2013.01 - EP US); **F05B 2270/321** (2013.01 - EP US); **H02P 2101/15** (2015.01 - EP US); **Y02A 90/10** (2018.01 - EP US); **Y02E 10/72** (2013.01 - EP US)

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